

# Cpuc energy storage decision



**All In One**  
Integrating battery packs



**Intelligent Integration**  
integrated photovoltaic storage cabinet



**High-capacity**  
50-500kWh



**Rated AC Power**  
50-100kW



**Degree of Protection**  
IP54



**Altitude**  
3000m(>3000m derating)



**Operating Temperature Range**  
-20~60°C(Derating above 50 °C)



## Overview

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To date the CPUC has approved procurement of more than 1,533.52 MW of new storage capacity.

CPUC Decision D.13-10-040 requires CPUC staff to conduct a comprehensive program evaluation of the CPUC energy storage procurement policies and AB 2514 energy storage p.

This study builds upon the previous study released on May 31, 2023 with additional analysis of the performance of energy storage resources participating in the CAISO marketpla.

R.10-12-007: In December 2010, the CPUC opened a Rulemaking to set policy for California Load Serving Entities (LSEs) to consider the procurement of viable and cost-effective en.

R. 11-09-011:This rulemaking reviewed the rules and regulations governing interconnecting generation and energy storage resources to the electric distribution systems. This rev.

In 2010, the California Legislature authorized the CPUC to evaluate and determine energy storage targets, if any, for the State Load Serving Entities (LSEs) through Assembly Bill (AB) 2514(Skinner, 2010). In 2013, the CPUC issued Decision (D.)13-10-040 which set an AB 2514 energy storage procurement target of.

To date the CPUC has approved procurement of more than 1,533.52 MW of new storage capacity to be built in the State. Of this total 506 MW are operational. The AB 2514.

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CPUC Decision D.13-10-040 requires CPUC staff to conduct a comprehensive program evaluation of the CPUC energy storage procurement policies and AB 2514 energy storage projects.

R.10-12-007: In December 2010, the CPUC opened a Rulemaking to set policy for California Load Serving Entities (LSEs) to consider the procurement of viable and cost-effective energy storage systems in response to AB 2514. This



rulemaking identified energy storage.

December 15, 2022 - The California Public Utilities Commission (CPUC) today issued a decision that modernizes the Net Energy Metering (NEM) solar tariff to promote grid reliability, incentivizes solar and battery storage, and controls electricity costs for all Californians. How many MW of energy will the CPUC procure in 2021-2023?

The procurement ordered today is in addition to the 3,300 MW that the CPUC ordered previously to come online in 2021-2023, the 1,325 MW of energy storage required under Assembly Bill 2514 (2010), and the estimated 1,500 MW that will be procured pursuant to two recent decisions adopted to address extreme weather events and summer reliability.

What is CPUC decision d13-10-040?

CPUC Decision D.13-10-040 requires CPUC staff to conduct a comprehensive program evaluation of the CPUC energy storage procurement policies and AB 2514 energy storage projects. The final study, conducted by Lumen Energy Strategy, was released on May 31, 2023. The final study and its appendices are posted below:.

How will the CPUC's directive impact California's energy supply strategy?

By 2037, the CPUC's directive could lead to the completion of this procurement strategy, if bid costs are found to be reasonable and contracts are approved, enhancing California's grid storage by up to 2 GW and increasing energy production by up to 8.6 GW.

What does CPUC stand for?

SAN FRANCISCO - The California Public Utilities Commission (CPUC) today established an innovative centralized procurement strategy aimed at boosting the state's clean energy resources.

How many MW of energy storage will be built in SCE?

Resolution E-4937 approved SCE's energy storage solicitation to comply with SB 801. To date the CPUC has approved procurement of more than 1,533.52 MW of new storage capacity to be built in the State. Of this total 506 MW are operational.



What did the energy storage rulemaking entail?

This rulemaking identified energy storage end uses and barriers to deployment, considered a variety of possible policies to encourage the cost-effective deployment of energy storage systems, including refinement of existing procurement methods to properly value energy storage systems. This rulemaking resulted in two CPUC Decisions, which are:



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### California Sets First-in-Nation Requirements for Solar & Energy Storage

This decision intensifies the spotlight on the California Public Utilities Commission (CPUC), which holds the keys to whether these standards ever go into effect. Solar PV and energy storage, whether on homes or commercial properties,

### Lumen Completes the Inaugural CPUC Energy Storage ...

OAKLAND, California, June 9, 2023 - Lumen Energy Strategy, LLC has completed the inaugural California Public Utilities Commission (CPUC) Energy Storage Procurement Study required by CPUC Decision 13-10-040 and pursuant to California Assembly Bill 2514 (Skinner, 2010). (Skinner, 2010).



### [CPUC Approves Energy Storage Net Metering](#)

NEM paired storage is now in effect for all of the three main California investor-owned utilities (IOUs). In February, the California Public Utilities Commission (CPUC) approved a decision that will allow customers with energy storage systems to receive credits for storage energy that is sent back to the grid, as long as the storage system charges entirely from solar.

### California "added insult to injury" latest anti-solar ruling

The California Public Utilities Commission (CPUC) has made another anti-rooftop solar decision, ruling that solar-plus-storage customers cannot



export electricity to the grid in exchange for an offset of their utility delivery charges. Under current billing structures



### California's CPUC proposes 2GW LDES procurement

The California Public Utilities Commission (CPUC) has proposed the procurement of over 10GW of new energy resources, including 1GW of multi-day long-duration energy storage (LDES) and another 1GW of 12 ...



### California's Energy Storage Mandate: Electricity Advisory ...

CPUC Storage Decision Highlights. On October 17, 2013, the CPUC approved D. 13-10-040 to establish storage procurement targets and policies for load-serving entities ...

Test certification  
CE, FC, UL



### CPUC Authorizes Procurement of 10.6 GW of Clean Energy ...

The California Public Utilities Commission (CPUC) issued a decision on August 22, 2024, authorizing the Department of Water Resources (DWR) to procure up to 10.6 ...



### CPUC APPROVES ENERGY STORAGE CONTRACT FOR SCE

Governor Gavin Newsom's July 30, 2021, Emergency Proclamation requested that the CPUC expedite actions and accelerate plans for new clean energy and storage projects to mitigate ...



### CPUC Approves Energy Storage Contract for SCE

Prior CPUC Decisions directed the state's investor-owned utilities to procure incremental capacity beyond the current 15 percent resource adequacy planning reserve margin to serve peak and net peak demand in 2021 and 2022, with a preference for energy



### Solar Industry Statement on CPUC Community Solar Decision

The solar and storage industry is shocked by the CPUC's apparent determination to deny an opportunity to take a step forward as a community solar leader. We continue to review the proposed decision and will keep working toward solutions that deliver the ###



### CPUC Authorizes Procurement of 10.6 GW of Clean Energy ...

The California Public Utilities Commission (CPUC) issued a decision on August 22, 2024, authorizing the Department of Water Resources (DWR) to procure up to 10.6 gigawatts (GW) of clean energy resources, including up to 7.6 GW of floating offshore wind--in





### CPUC ORDERS HISTORIC CLEAN ENERGY PROCUREMENT ...

CPUC must also ensure that the state has sufficient energy resources available to meet customer demand. The procurement ordered today is in addition to the 3,300 MW that ...



### CPUC AUGMENTS HISTORIC CLEAN ENERGY ...

2 cpuc.ca.gov , 415-703-2782 , 800-848-5580 , includes more than 85 gigawatts (GW) of new resources by 2035. These new resource additions include 54,000 MW of renewable resources, including 2,000 MW of geothermal and 4,700 MW of offshore wind. It also

### D.13-10-040: Decision Adopting Energy Storage Procurement ...

The California Public Utilities Commission (CPUC) adopted Decision 13-10-040 (Decision) to establish the policies and mechanisms for procurement of electric energy storage pursuant to ...



### Summer Reliability

Resolution E-5219 San Diego Gas & Electric Company Contract and Cost Information for Four Utility-Owned Circuit-Level Energy Storage Microgrid Projects Pursuant to Decision 21-12-004 Courtesy copy of the Program Description for the Emergency Load Reduction Program, with track changes between the existing program and the modifications proposed via ...



### Self-Generation Incentive Program (SGIP)

November 15, 2017: CPUC hosts a workshop on the results of the 2016 Energy Storage Impact Evaluation. For a zip file containing the presentations made at the workshop, please click [here](#) . October 13, 2017: CPUC issues Resolution E-4887 updating the definition of "developer" for the purpose of the SGIP developer cap.



### **CPUC's Proposed NEM-3 Decision Will Hurt the Growth of Energy Storage**

A million sun-charged batteries by 2030: this is what California needs to create a more stable electric grid while bringing down costs for everyone. If done right, gradual changes to net metering could increase the adoption of solar and energy storage systems in California, critical in achieving the

### **Energy Storage**

CPUC Decision D.13-10-040 requires CPUC staff to conduct a comprehensive program evaluation of the CPUC energy storage procurement policies and AB 2514 energy storage projects. The final study, conducted by Lumen Energy Strategy, was ...



### **CPUC Decision Cuts Price of Electricity Under New Billing ...**

CPUC Sets Flat Rate at Lower End of Stakeholder Proposals  
o CPUC reviewed proposals from a dozen stakeholders, including flat rate proposals up to \$73 per month.  
o The CPUC's decision set the flat rate at \$24.15 per month, which will reduce the price of a unit of



### [Energy Storage , Lumen Energy Strategy](#)

Lumen conducted two comprehensive energy storage studies for the California Public Utilities Commission, required by Decision 13-10-040 and pursuant to Assembly Bill 2514 (Skinner, 2010). To learn more, please scroll down. You can also subscribe to our mailing



### **CPUC Advances Clean Energy with Centralized Procurement ...**

SAN FRANCISCO - The California Public Utilities Commission (CPUC) today established an innovative centralized procurement strategy aimed at boosting the state's clean ...

### **Storage Best Practices**

UL 1973 covers energy storage for solar photovoltaics, wind turbine storage, and other stationary applications as well as for light electric rail applications. UL 1973 is evolving into UL 9540, a newer standard that covers related systems for storing energy from power sources or providing electricity to power conversion equipment, for example electrical charging or discharging ...



### **CPUC Orders Clean Energy Procurement To Ensure Electric ...**

The California Public Utilities Commission (CPUC), in ongoing efforts to ensure electricity reliability in the state and meet clean energy goals, today approved a historic decision ordering ...



### CPUC Helps Ensure Energy Reliability for Southern California

November 04, 2021 - The California Public Utilities Commission (CPUC) today acted to ensure sufficient natural gas supplies for gas and electric customers in the Los Angeles Basin this winter to maintain energy reliability. Today's Decision allows Southern



- 50KW/100KWH
- HIGHER POWER OUTPUT IN OFF-GRID MODE
- CONVENIENT OPERATION & MAINTENANCE
- PRE-WIRED



### [Energy Storage Procurement Study](#)

Draft 11/4/2022 CPUC Decision 13-10-040 requires the CPUC Energy Division to conduct a comprehensive program evaluation of the CPUC Energy Storage Framework and energy storage procurement in compliance with Assembly Bill (AB) 2514 (Skinner, 2010)

### Lumen Completes its Second Energy Storage Study for the CPUC

OAKLAND, California, August 5, 2024 - Lumen Energy Strategy, LLC has completed its second energy storage study for the California Public Utilities Commission (CPUC), required by CPUC Decision 13-10-040 and pursuant to California Assembly Bill ...



### PUBLIC UTILITIES COMMISSION OF THE STATE OF ...

Resolution E-4949 Rev. 2 DRAFT November 8, 2018 PG& E AL 5322-E/RCL 4 1. Approves the four storage projects and associated contracts resulting from its Local Sub Area RFO: Vistra Moss Landing (300 MW) Energy Storage Resource Adequacy Agreement





### **CPUC APPROVES ENERGY STORAGE CONTRACT FOR SCE**

Prior CPUC Decisions directed the state's investor-owned utilities to procure incremental capacity the current 15 percent resource adequacy planning reserve margin to serve peak and net peak demand in 2021 and 2022, with a preference for energy storage.



### **D.13-10-040: Decision Adopting Energy Storage Procurement ...**

Description The California Public Utilities Commission (CPUC) adopted Decision 13-10-040 (Decision) to establish the policies and mechanisms for procurement of electric energy storage pursuant to Assembly Bill 2514 (Pub. Util. Code Section 2836 et seq.). The

### **CPUC Issues Final Decision Affecting Generation Procurement ...**

In the Final Decision, the CPUC adopted a PSP portfolio which would result in a 25 million metric ton (MMT) reduction in GHG emissions below 2020 levels within the electricity sector by 2035, putting the state on track to surpass the SB 100 targets and achieve



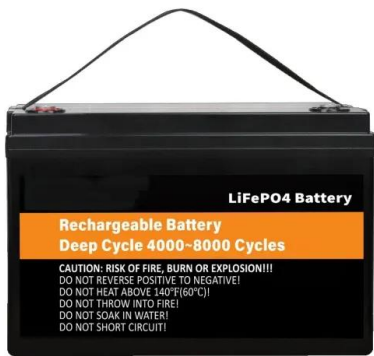
### **CPUC Advances Clean Energy with Centralized Procurement ...**

Media Contact: Terrie Prosper, 415.703.1366, news@cpuc.ca.gov Docket #: R.20-05-003 CPUC Advances Clean Energy with Centralized Procurement Strategy Decision Enhances California's Energy Storage and Production by 10.6 GW SAN FRANCISCO



## Fact Sheet: Decision Requiring Clean Energy Procurement for ...

between 2020-2024 from prior CPUC decisions. o The procurement proposed in D.21-06-035 is in addition to the 3,300 MW that the CPUC ordered to come online 2021-2023 (see Decision D.19-11-016), the 1,325 MW of energy storage that the Legislature has



## CALSSA Statement on CPUC's Revised Proposed Decision on ...

Sacramento, CA --The California Public Utilities Commission (CPUC) released a revised proposed decision today on solar net energy metering. Though the proposal avoids unfair and illegal solar taxes and fees, it would make solar less affordable by reducing the credit consumers receive for contribu

## Energy Storage

CPUC Decision D.13-10-040 requires CPUC staff to conduct a comprehensive program evaluation of the CPUC energy storage procurement policies and AB 2514 energy storage projects. The final study, conducted by Lumen Energy Strategy, was ...



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